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(10)

BRUHAT BANGALORE MAHANAGARA PALIKE

YELAHANKA ZONE

DIVISION: BYATARAYANAPURA

SUB DIVISION: VIDYARANYAAPURA

***Name of Work**: Estimate for Improvements to Roads and Drain at Nanjappa Layout, Gopalappa Garden, Ramanna Garden and Surrounding area in Ward No. 10, (Doddabommasandra), Vidyaranyapura Sub Division.*

Estimated Cost: Rs: 60.00 Lakhs

BRUHAT BANGALORE MAHANAGARA PALIKE

YELAHANKA ZONE

Name of the work: **Estimate for Improvements to Roads and Drain at Nanjappa Layout, Gopalappa Garden, Ramanna Garden and Surrounding area in Ward No. 10, (Doddabommasandra), Vidyaranyapura Sub Division.** (9)

			Estimate Cost:						6000000.00
Sl. No	Description	Unit	No.	L	B	D	Qty	Rate	Amount
1	KSRRB 300-1. Earthwork excavation by manual means in ordinary soil involving an average horizontal throw upto 2 meters and an average lift upto 0.5 m, excavated surface leveled and sides neatly dressed, the disposed earth to be leveled neatly after breaking of clods complete as per specifications. MORTH / Chapter 3 **Page No. 143 / Item No. 19.1, PWD SR 2018-19**	Cum							
	Desilting of Ramanna Garden 1st Main		2	226.00	0.60	0.40	108.48		
	2nd Main		2	225.00	0.60	0.40	108.00		
	3rd Main		2	230.00	0.60	0.40	110.40		
	Cross Road 1		2	99.00	0.60	0.40	47.52		
	Cross Road 2		2	100.00	0.60	0.40	48.00		
	Culvert		5	7.00	1.80	1.20	75.60		
	Basic Rate	130.00					**498.00**	243.88	**121452.00**
	Area Weightage @ 6%	7.80							
	Sub Total	**137.80**							
	Add loading and unloading Charges **It No 17.1 KSRRB M 100-1**	68.00							
	Average weight of earth 1.28 tonne / kg for 11.90 Km = 1.28 T X 11.90Km X 2.5 Tonne / km = 38.08	38.08							
	Total	**243.88**							
2	KSRB 4-1.3 : Providing and laying in position **plain cement concrete of mix 1:4:8** with OPC cement @ 180kgs, with 40mm and down size graded granite metal coarse aggregates @0.85cum and fine aggregates @ 0.57cum machine mixed, machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, **in foundation**, including cost of all materials, labour, HOM of machinery, curing complete as per specifications. Specification No. KBS 4.1, 4.2. **Page No.13, Item No. 4.3 of PWD SR 2018-19**	Cum							
	Bottom Concrete Damage Portion								
	Ramanna Garden 1st Main		2	25.00	0.60	0.10	3.00		
	2nd Main		2	50.00	0.60	0.10	6.00		
	3rd Main		2	65.00	0.60	0.10	7.80		
	Cross Road 1		2	45.00	0.60	0.10	5.40		
	Cross Road 2		2	30.00	0.60	0.10	3.60		
	Culvert		5	7.00	1.80	0.10	6.30		
	Basic Rate	5102.00					**32.10**	5408.12	**173601.00**
	Area Weightage @ 6%	306.12							
	Total	**5408.12**							
3	Providing and laying **cement concrete** using 20 mm and down size granite coarse aggregates and fine aggregates of ready mixed concrete **(RMC) M 20** for R.C.C works laid in 15 cms thick layers and well compacted vibrating, curing, **for raft foundation column footing , main and secondary beams** with all lead and lifts etc., complete (exclusive of cost of steel and fabrication charges.) **Page No. 18, Item No. 4.48, PWD SR 2018-19**	Cum							

Sl. No	Description	Unit	No.	L	B	D	Qty	Rate	Amount
	Damaged Bottom Concrete								
	Ramanna Garden 1st Main		2	226.00	0.60	0.10	27.12		
	2nd Main		2	225.00	0.60	0.10	27.00		
	3rd Main		2	230.00	0.60	0.10	27.60		
	Cross Road 1		2	99.00	0.60	0.10	11.88		
	Cross Road 2		2	99.00	0.60	0.10	11.88		
	Culvert		5	7.00	1.50	0.20	10.50		
	Damaged Side Wall								
	Ramanna Garden 1st Main		2x2	226.00	0.15	0.25	33.90		
	2nd Main		2x2	225.00	0.15	0.25	33.75		
	3rd Main		2x2	230.00	0.15	0.30	41.40		
	Cross Road 1		2x2	99.00	0.15	0.30	17.82		
	Cross Road 2		2x2	99.00	0.15	0.30	17.82		
	Culvert Side Wall		2x5	7.00	0.30	0.90	18.90		
	Basic Rate	5444.00					**279.57**	5770.64	**1613298.00**
	Area Weightage @ 6%	326.64							
	Total	**5770.64**							
4	KSRB 4.9.2 : Providing **T.M.T steel reinforcement for R.C.C work** including straightening, cutting, bending, hooking, placing in position, lapping and / or welding wherever required, tying with binding wire and anchoring to the adjoining members wherever necessary complete as per design (laps, hooks and wastage shall not be measured and paid) cost of materials, labour, HOM of machinery complete as per specifications. Specification No. KBS 4.6.3 **- TMT bars Fe 500 Page No. 18 / Item No. 4.46.2, PWD SR 2018-19**	Tonne							
	For RCC Drain @ 60 Kg / Cum		0.06	67.65			**4.06**	75223.96	**305334.00**
	Basic Rate	70966.00							
	Area Weightage @ 6%	4257.96							
	Total	**75223.96**							
5	KSRB 4-6.4 : Providing and removing **centering, shuttering, strutting, propping** etc., and removal of form work for **vertical surface such as walls at any thickness**, including attached pilasters, buttresses, plinth cills and string courses cost of all materials, labour complete as per specifications. Specification No. KBS 4.6.2 **Page No. 16 / Item No. 4.31 PWD SR 2018-19**	Sqm							
	Side Wall								
	Ramanna Garden 1st Main		2x2	226.00		0.25	226.00		
	2nd Main		2x2	225.00		0.25	225.00		
	3rd Main		2x2	230.00		0.30	276.00		
	Cross Road 1		2x2	99.00		0.30	118.80		
	Cross Road 2		2x2	99.00		0.30	118.80		
	Basic Rate	358.00					**964.60**	379.48	**366046.00**
	Area Weightage @ 6%	21.48							
	Total	**379.48**							
6	Providing granite slabs of selected quality roughly dressed havinf a size of 7.5 cms thick and fixed in cement mortar (1:6) including fixing curing ete., complete **Page No. 27 / Item No. 5.31.1 PWD SR 2018-19**	Sqm							
	For Covering Slab								
	Ramanna Garden 1st Main		2	226.00		0.90	406.80		
	2nd Main		2	225.00		0.90	405.00		

Sl. No	Description	Unit	No.	L	B	D	Qty	Rate	Amount
	3rd Main		2	100.00		0.90	180.00		
	Cross Road 1		2	30.00		0.90	54.00		
	Cross Road 2		2	45.00		0.90	81.00		
	Basic Rate	700.00		626.00			**1126.80**	742.00	**836086.00**
	Area Weightage @ 6%	42.00							
	Total	**742.00**							
7	KSRB 5-9 : Providing chamfering edges to stone slab 2.5 cms. wide as per specifications. (only chamfered length shall be recorded) KBS 5.1.13 **Page No. 26 / Item No. 5.22, PWD SR 2018-19**	m							
			2087	3.00			**6260.00**	61.48	**384865.00**
	Basic Rate	58.00							
	Area Weightage @ 6%	3.48							
	Total	**61.48**							
8	Providing **precast slab of 250mm thick** including cost of all materials, labour, curing, transportation, loading unloading, etc.,complete as per the direction of engineer in charge - (Data rate Approved).	Sqm							
			12x5	1.50	0.60		54.00		
							54.00	5418.00	**292572.00**
9	KSRB 4-1.6 ; Providing and laying in position **plain cement concrete of mix 1:2:4** with cement @ 240kgs, with 20mm and down size graded granite metal coarse aggregates @ 0.69 cum and fine aggregtes @ 0.459cum, machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, **in foundation, plinth and cills**, ncluding cost of all materials, labour, HOM of machinery, curing complete as per specifications. Specification No. KBS 4.1, 4.2. **Page No.13, Item No. 4.6 PWD SR 2018-19**	Cum							
	Covering Slab Ramp								
	Ramanna Garden 1st Main		2	226.00	0.30	0.10	13.56		
	2nd Main		2	225.00	0.30	0.10	13.50		
	3rd Main		2	230.00	0.30	0.10	13.80		
	Cross Road 1		2	99.00	0.30	0.10	5.94		
	Cross Road 2		2	99.00	0.30	0.10	5.94		
	Culvert Ramp		2x5	7.00	1.00	0.10	7.00		
	Basic Rate	5422.00					**59.74**	5747.32	**343345.00**
	Area Weightage @ 6%	325.32							
	Total	**5747.32**							
10	Providing and fixing pre cast solid cement concrete kerb stones made out of CC 1:2:4 with top and bottom width 114 and 165 mm respectively, 400mm high and 450mm in length finished with CM 1:3 plastering and finishing cutting including formwork, curing, including cost of materials, labour charges of machinery, loading and unloading, lead and lift, transportation ete.,complete **Page No. 27 / Item No. 5.30 PWD SR 2018-19**	No							
			2	226.00			1004		
				0.45					
			2	225.00			1000		
				0.45					
	Basic Rate	408.00					**2004**	432.48	**866882.00**
	Area Weightage @ 6%	24.48							

Sl. No	Description	Unit	No.	L	B	D	Qty	Rate	Amount
	Total	**432.48**							
11	KSRB 15-19.1 : Providing and applying ready mix priming coat **over concrete** / masonry / asbestos cement sheet / plastered surfaces including preparing the surface after thoroughly cleaning of oil, grease, dirt and other foreign matter, and sand papering including cost of materials, labour, complete as per specifications. **Page No. 124 / Item No. Item No. 15.80, PWD SR 2018-19**	Sqm							
	Kerb Stone Painting								
	Ramanna Garden 1st Main		2	226.00		0.45	203.40		
	2nd Main		2	225.00		0.45	202.50		
	Basic Rate	37.00					**405.90**	39.22	**15919.00**
	Area Weightage @ 6%	2.22							
	Total	**39.22**							
12	KSRB 15-19.2 : Providing and applying spray painting in two coats (excluding priming coat) over concrete / masonry / asbestos cement sheet / plastered surfaces with flat wall paint of approved brand to give even shade after cleaning the surface of all dirt, dust and other foreign matter, and sand papering including cost of materials, labour, complete as per specifications.**Page No. 122 / Item No. Item No. 15.81, PWD SR 2016-17**	Sqm							
			Qty Vide Item No. 11				405.90		
	Basic Rate	85.00					**405.90**	90.10	**36572.00**
	Area Weightage @ 6%	5.10							
	Total	**90.10**							
	Sub Total								**5355972.00**
	GST 12%								**642717.00**
	Miscellaneous and other Charges	L/S							**1311.00**
								Total	**6000000.00**
	Rupees Sixty Lakh(s) Only								

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CERTIFICATE:

1 The work spot has been inspected and the work is found necessary.
2 This estimate is prepared as per PWD SR of 2018-19.
3 This work included under 2018-19 POW Grants.
4 The provisions were made in this estimate are necessary and adequate.
5 This works come under B.B.M.P. limits.

Sweethi NK
Assistant Engineer
Ward No. 10

Assistant Executive Engineer
Bruhat Bangalore Mahanagara Palike
Vidayranyapura Sub Division

Executive Engineer
Bruhat Bangalore Mahanagara Palike
Byatarayanapura Division

ADMINISTRATIVE APPROVAL
Accorded For Rs. 60.00 Sixty Lakhs only
Head of A/c. P3601, Special Development works
Div. Ref. No. 55 | 19-20 Date. 24-10-19
24/10
AE
EE(BTP) 24/10

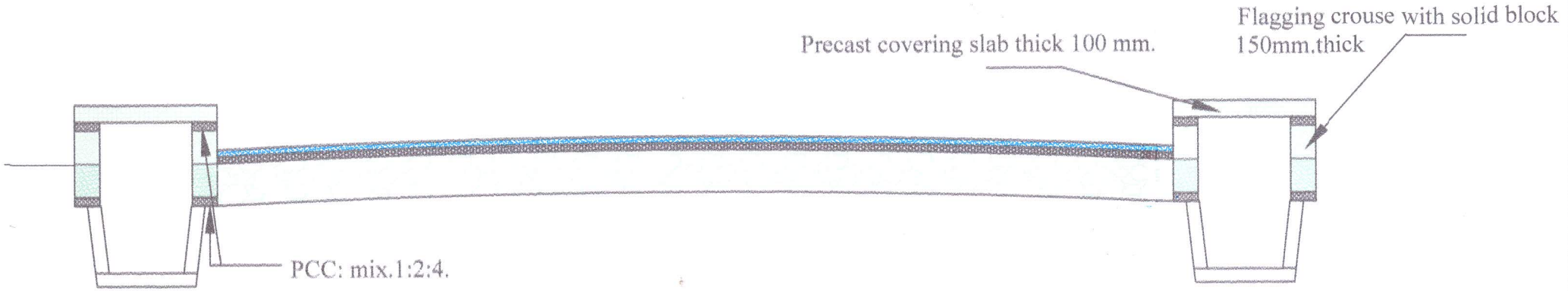
Technical Sanction
Accorded For Rs 60.00 Lakhs only
Head of A/C. P3601
CER NO : 19.1 Dt: 23.10.2019
JA
CE (YNK)

Name of work: Improvements to Roads and Drain at Nanjappa Layout, Gopalappa Garden, Ramanna Garden and Surrounding area in Ward No. 10, (Doddabommasandra), Vidyaranyapura Sub Division.

(4)

Assistant Engineer
Ward No. 10

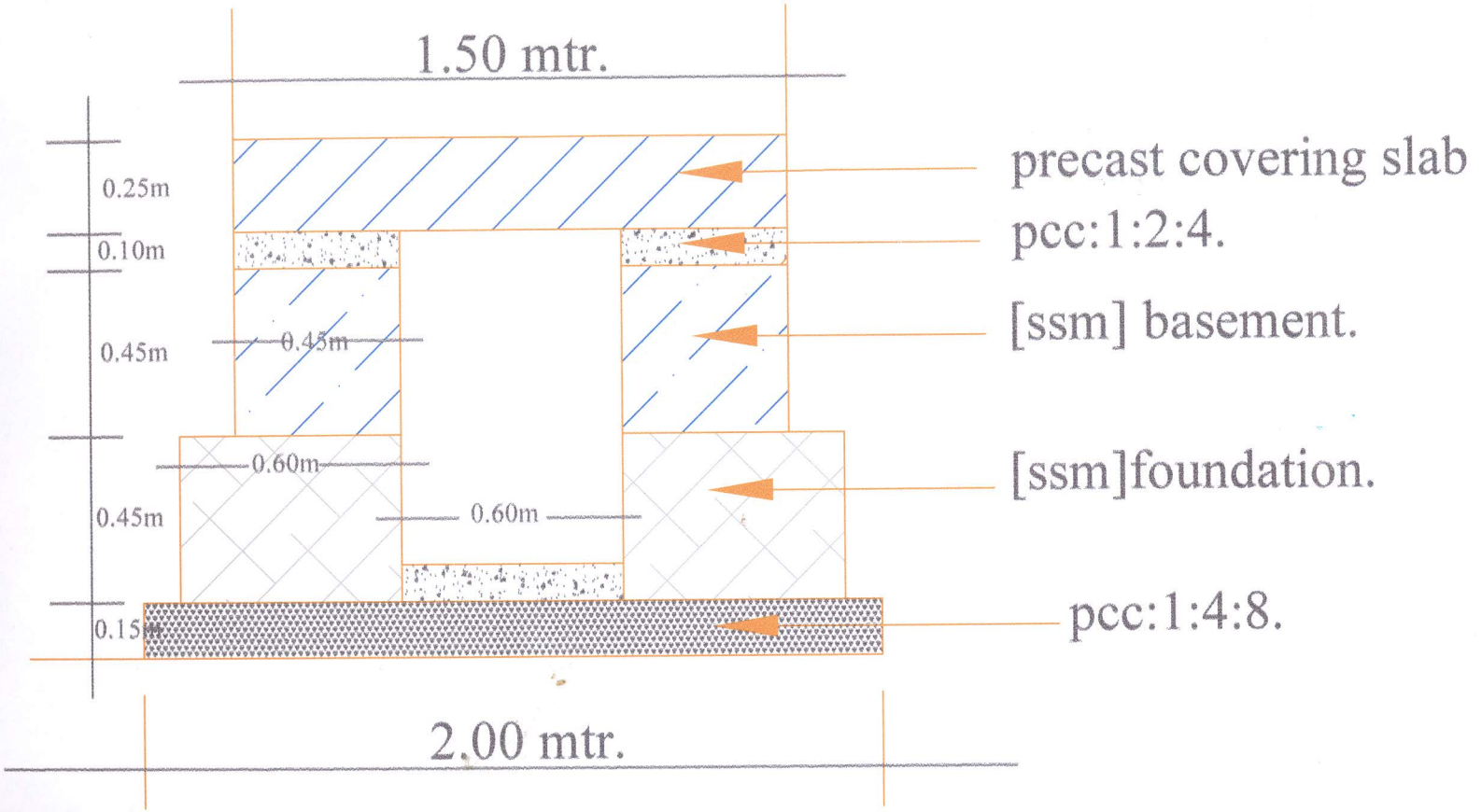
Assistant Executive Engineer
Vidyaranyapura Sub Division



CROSS SECTION OF SOLID BLOCK FLAGGING COURCE OVER B S SLAB DRAIN.

Sunitha.NK
AEW10

Assistant Executive Engineer.
Vidyaranyapura Sub Division
BBMP, Bangalore - 97



CROSS SECTION OF CULVERT

Sunitha.NK
AE W10

Assistant Executive Engineer
Vidyaranyapura Sub Division
BBMP, Bangalore - 97